

ELECTRICAL FIELD APPARATUS AND METHODS FOR FLUID FOR DECONTAMINATION AND OTHER PURPOSES

Abstract of the Disclosure

Methods and devices are provided for treating a fluid with a high voltage electric field for decontaminating the fluid or a variety of other purposes. In a preferred embodiment for decontamination, the method includes (a) applying an electric field across a fluid having contaminants dispersed therein; and then (b) flowing the fluid through a decontamination cell to separate from the fluid at least a portion of the contaminants. An apparatus for use with this method preferably includes an electropotential cell comprising a housing containing an anode and a cathode for applying an electric field to a fluid flowing through the housing, a decontamination cell in fluid communication with the electropotential cell for separating from the fluid at least a portion of any contaminants dispersed therein, and an optional means for introducing gas bubbles into the fluid before the fluid flows to the electropotential cell.